

SPECIFICATION AMENDMENTS

In the Specification:

Please accept the following replacement paragraph of the specification, marked to show changes:

[14] One preferred embodiment of this invention is a polymeric flocculant infused silt fence assembly constructed by attaching a first geo-textile sheet to a second geo-textile sheet so as to form a series of cavities. A polymeric flocculant material is placed in the cavities. The two geo-textile sheets are made from non-woven geo-textile or a heat-bonded geo-textile. The geo-textile sheets have holes sized to filter entrained non-colloidal particles, such as non-colloidal silt, as water runoff is flowed through the assembly of the two sheets and flocculant. In one preferred embodiment the polymeric flocculant material is anionic polyacrylamide polyarylmide.

[18] Figures 1, 2 and 3 further show a flocculant material 30 disposed between the first geo-fabric sheet 40 and the second geo-fabric sheet 43 within either a single cavity 15, as shown in Figures 1 and 2, or within multiple cavities 15 or pockets 16. The flocculant material 30 is reactive with waterborne colloidal particles, including colloidal silt, and will cause waterborne colloidal particles to coagulate and form flocs. These flocs will be several magnitudes larger than the

size of the colloidal particles and are large enough to be filtered by either the needle-punched, non-woven geo-textile 48 or the heat-bonded geo-textile 49 of the embodiments of Figures 1, 2 or 3. The flocculant material 30 of the embodiments of Figures 1, 2 and 3 can be a polymeric flocculant material 34 selected from various polymeric flocculants. In the embodiments of Figures 1, 2 and 3 the polymeric flocculant material 34 comprises anionic polyacrylamide polyarylmide 36.

[22] Referring again to Figure 1, yet another alternate method of manufacture of the polymeric flocculant infused geo-fabric assembly 10 is shown at an early step of manufacture. Again, a first geo-fabric sheet 40 is spread over a working surface. A layer of a liquid emulsion of polymeric flocculant materials 34, such as anionic polyacrylamide polyarylmide 36, is then applied evenly upon the first geo-fabric sheet 40. Next, a second geo-fabric sheet 43 is spread over the first geo-fabric sheet 40 and the layer of liquid emulsion of polymeric flocculant materials 34 to form an un-affixed geo-fabric assembly 17. The un-affixed geo-fabric assembly 17 is compressed so as to minimize variations in the thickness of the layer of liquid emulsion over the un-affixed geo-fabric assembly 17. Referring now to Figures 2 and 3, the second geo-fabric sheet 43 is mechanically affixed to the first geo-fabric sheet 40 to form a single geo-fabric assembly 10 by sewing, stapling, 'hog-ring', tape or other standard method of attachment.

[24] In the embodiment shown in Figure 5, the flocculant material 30 is a polymeric flocculant material 34. In alternative embodiments, the polymeric flocculant material 34 is anionic polyacrylamide polyarylmide 36. In the embodiment shown in Figure 5, at least one of the first and second geo-fabric sheets 40, 43 is made from a geo-textile 46, and more specifically a non-woven geo-textile 47, such as a needle-punched, non-woven geo-textile 48. In an alternative embodiment, the geo-textile 46 is a heat-bonded geo-textile 49.